USGS science for a changing world

Earthquake Shaking — Green Alert

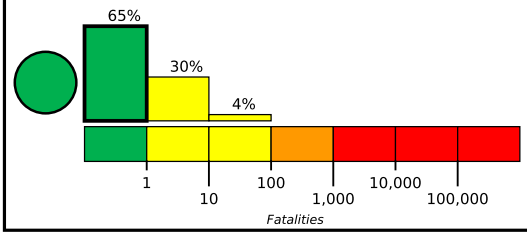
GSN · USAID FROM THE AMERICAN PEOPLE · ANSS

M 6.4, 105 km ESE of La Rivera, Mexico

Origin Time: 2023-06-18 20:30:22 UTC (Sun 13:30:22 local)
Location: 23.2433° N 108.6306° W Depth: 10.0 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

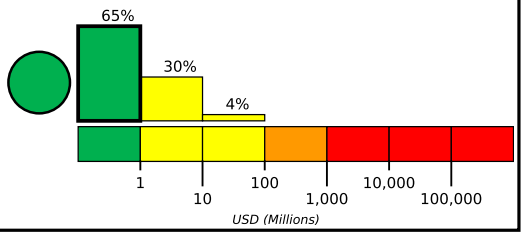
PAGER Version 4
Created: 3 hours, 14 minutes after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

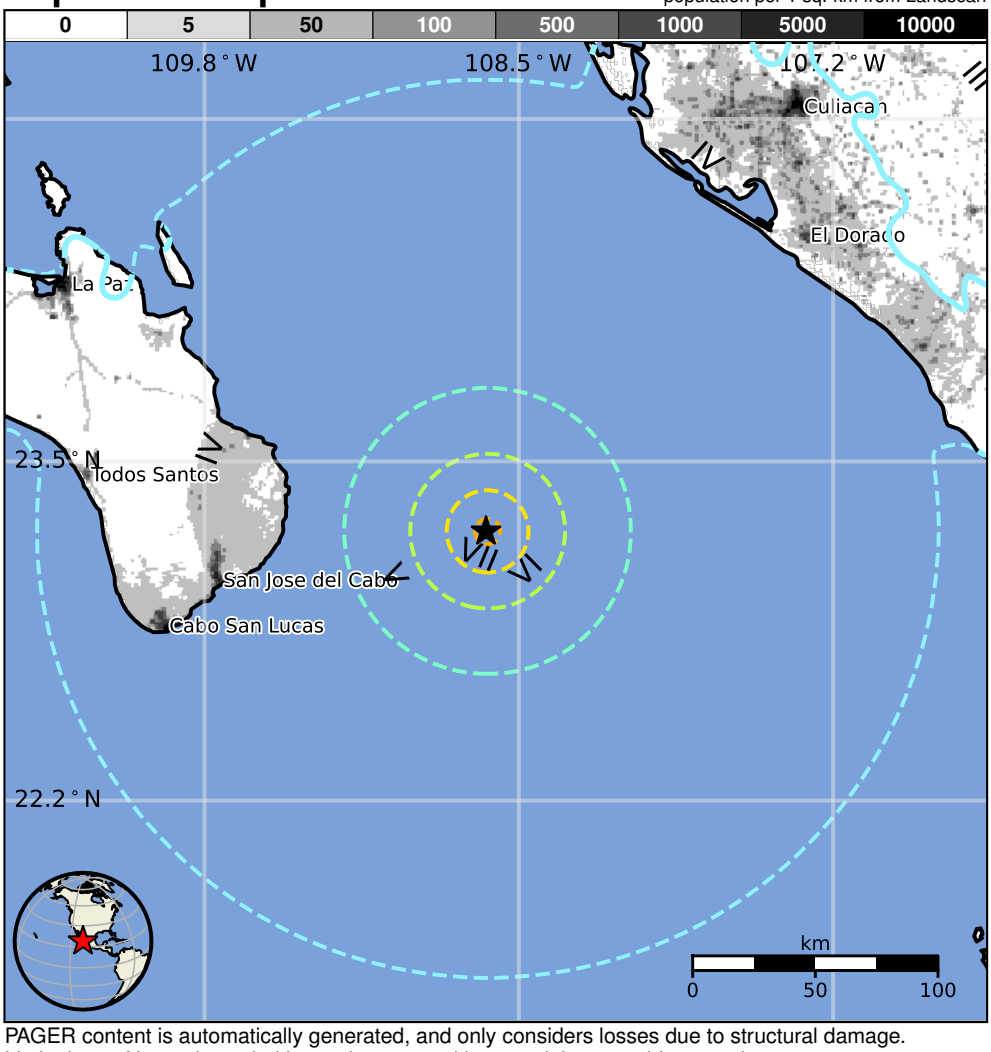


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	31k*	1,880k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2007-09-01	219	6.1	V(17k)	–
1990-03-16	181	6.1	V(534k)	–
1995-06-30	215	5.7	VI(170k)	–

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**San Jose del Cabo**	**49k**
IV	Las Veredas	10k
IV	La Playa	1k
IV	Las Aguamitas	2k
IV	Eldorado	13k
IV	El Higueral	2k
IV	**Cabo San Lucas**	**43k**
IV	Navolato	28k
IV	Licenciado Benito Juarez (Campo Gobierno)	24k
IV	**La Paz**	**171k**
IV	**Culiacan**	**675k**

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000k9f0#pager

Event ID: us7000k9f0